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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/579,559	03/26/2007	Koji Hasegawa	2006-0733A	3251	
513 WENDEROTT	7590 11/24/200 H, LIND & PONACK, 1	EXAM	EXAMINER		
1030 15th Street, N.W., Suite 400 East Washington, DC 20005-1503			TADESSE, Y	TADESSE, YEWEBDAR T	
			ART UNIT	PAPER NUMBER	
		1792			
			MAIL DATE	DELIVERY MODE	
			11/24/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/579,559	HASEGAWA ET AL.		
Examiner	Art Unit		
YEWEBDAR T. TADESSE	1792		

Office Action Summary	Examiner	Art Unit	l			
	YEWEBDAR T. TADESSE	1792				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL. WHICHEVER IS LONGER, FROM THE MAILING DV - Extensions of time may be available under the provisions of 37 CPR 1.15 - Extensions of time may be available under the provisions of 37 CPR 1.15 - If the provision of the provisions of 37 CPR 1.15 - If the provision of the provision of 18 CPR 1.15 - Failure to reply within the set or extended period for reply will by statute, Any reply received by the Office later than three months after the mailing aemed patent term adjustment, See 37 CPR 1.76(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim- till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
· _						
4) Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
o, and dasjourne received an area.	oloololl roquitorion					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 16 May 2006 is/are: a)⊠ accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	⊢(d) or (f).				
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National	Stage			
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				

Information Disclosure Statement(s) (FTO/SB/00)
 Paper No(s)/Mail Date 8/06,5/08&11/08.

5) Notice of Informal Patent Application
6) Other: _____.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Cosentino et al (US 4,702,932).
- 3. Cosentino et al discloses (see Fig 2) a coating apparatus comprising: a rotary drum (20) is rotated around an axis inclined with respect to a horizontal line, and has an opening at one end on an inclination upper side; a spray nozzle unit (24, 25) placed in the rotary drum, wherein the spray nozzle unit is removably attached to a swing arm (14); the swing arm (23) is swingable around a swing pivot set outside of the rotary drum; and owing to a swing operation of the swing arm, the spray nozzle unit is capable of being moved between an inside and an outside of the rotary drum.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which

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said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 1-3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giogoli (US 6,557,486) in view of Pentecost (US 6,511,541).

With respect to claim 1, Giogoli discloses (see Figs 1-2) a coating apparatus comprising: a rotary drum (1); a spray nozzle unit placed in the rotary drum and has an opening at one end on an upper side, wherein the spray nozzle unit is removably attached to a swing arm (14); the swing arm is swingable around a swing pivot set outside of the rotary drum; and owing to a swing operation of the swing arm, the spray nozzle unit is capable of being moved between an inside and an outside of the rotary drum. Giogoli lacks teaching a rotary drum rotating around an axis inclined with respect to a horizontal line. However, the use of tilted drum is well known in the art; for instance as taught by Pentecost (see column 2, lines 30-67 and Fig 2). It would have been obvious to

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one of ordinary skill in the art at the time the invention was made to tilt the drum in Giogoli to discharge the material through the outlet by gravity as taught by Pentecost.

As to claims 2-3 and 5, Giogoli lacks specifically teaching a liquid tube of spray solution, a liquid tube holder and an air tube of compressed air connected to the spray nozzle unit. Pentecost discloses a liquid line (50), a compressed air tube (52, 56), a liquid tube holder (48) holding a liquid tube connected to the spray nozzle unit, the liquid tube holder is removably attached to the swing arm (boom 34) and the compressed air tube (52) is inserted in the swing arm. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a liquid line and a compressed air connected to the spray nozzle unit to continuously supply the coating material and atomize the coating solution in uniformly applying the coating material to the particulate material. It would have been obvious to one of ordinary skill in the art at the time the invention was made to removably attach the liquid tube holder to the swing arm to facilitate maintenance operations.

 Claims 4 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giogoli (US 6,557,486) in view of Pentecost (US 6,511,541) as applied to claim 1 and further in view of Hasegawa et al (US 2006/0096527).

Giogoli lacks teaching discharging path of the particle product formed of a surface with unevenness. Hasegawa et al discloses (see paragraph 92 and Fig 13) discharge path having discharge guide parts (21g). It would have been

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obvious to one of ordinary skill in the art at the time the invention was made to include a surface with unevenness formed at the discharge path to discharge the entire product with a good efficiency as taught by Hasegawa et al (see paragraph 37).

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gross (US 3,357,398) also discloses a tilted drum (see Fig 3).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YEWEBDAR T. TADESSE whose telephone number is (571)272-1238. The examiner can normally be reached on Monday-Friday 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yewebdar T Tadesse/ Primary Examiner, Art Unit 1792